

Title (en)
GAS-BLAST CIRCUIT BREAKER

Title (de)
DRUCKGASSCHALTER

Title (fr)
DISJONCTEUR À EXPLOSION GAZEUSE

Publication
EP 2903013 A4 20160608 (EN)

Application
EP 13841617 A 20130926

Priority
• JP 2012216894 A 20120928
• JP 2013005712 W 20130926

Abstract (en)
[origin: EP2903013A1] A pair of fixed arc electrodes (30a), (30b) are arranged facing each other within a sealed container that is filled with arc-extinguishing gas 1. There are provided: a compression puffer chamber (12) for accumulating pressurized gas (35) that is obtained by elevating the pressure of the arc-extinguishing gas (1); and an insulated nozzle (32) that directs the pressurized gas (35) towards the arc discharge (7) from the compression puffer chamber (12). A buffer chamber (36) is provided, in which hot exhaust gas (20) generated by the heat of the arc discharge (7) is temporarily accumulated. A pressurized gas through-flow space (43) is provided, communicating with the compression puffer chamber (12). In the pressurized gas through-flow space (43), an opening/closing section (41) prevents inflow of hot exhaust gas (20) by assuming a closed condition during the earlier half of the current interruption period, and in the latter half of the current interruption period the opening/closing section 41 is opened to allow flow of pressurized gas (35).

IPC 8 full level
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CPC (source: CN EP US)
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Citation (search report)
• [XAI] JP 4989794 B1 20120801
• [X] US 6163001 A 20001219 - ZEHNDER LUKAS [CH], et al
• [A] JP S6114444 U 19860128
• [A] US 4450330 A 19840522 - ZUECKLER KARL [DE]
• [A] US 5905243 A 19990518 - ZEHNDER LUKAS [CH], et al
• See references of WO 2014050108A1

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EP3059753A4; US11177097B2; US9997314B2

Designated contracting state (EPC)
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